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THERAPEUTIC USE OF BACILLUS PRODICIOSUS IN THE USER

A. M. Bezborodov

Investigations on the antibiotic properties of B. prodigiosus Serratia marcescens have been conducted in Russia since 1886. In that year N. F. Gamaleya for the first time investigated thoroughly the properties of this microorganism. In 1887, A. D. Pavlovskiy published an article in which he described the results of his experiments on using B. prodigiosus to treat the cutaneous form of anthrax in rabbits. In 1894, N. P. Tishutkin submitted a dissertation in which the action of B. prodigiosus on Achorion Trichophyton fungi which cause mange was described. Other Russian investigators, including O. Ling, also studied the properties of B. prodigiosus.

However, the greatest successes in the application of this microorganism in both human and veterinary medicine were achieved during the Soviet period. A group directed by Prof B. I. Kurochkin utilized B. prodigiosus for the active suppression of Staph. aureus and applied B. prodigiosus in the treatment of open suppurating wounds. In a liquid nutrient medium, Bacilli prodigiosi kill 2.5 times their quantity of staphylococci within one minute.

B. prodigiosus is also used for the treatment of persons who carry diphtheria bacilli. As a rule, people who have recovered from diphtheria remain carriers of bacilli for a long time. However, the majority of diphtheria bacilli carriers (93.2%) are rid of the causative factor of this disease entirely within 2 weeks if a suspension of B. prodigiosus is dropped into their nose and pharynx.

The pigment of B. prodigiosus, prodigiosin, has a considerable antibiotic activity. It suppresses Staph. aureus and can be used as an effective remedy.

USSR scientists have investigated B. prodigiosus only for the purpose of treating diseases. On the other hand, the Germans, during the occupation of Paris in World War II, used B. prodigiosus as a test organism in Paris subways and at the Place de la Concorde in investigating procedures for biological war-

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